

CLAIMS

What is claimed is:

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Sub B6
1. A fuel additive comprising:
a fuel stabilizer; and
an iron-containing organometallic compound.
 2. The fuel additive of claim 1 wherein said fuel stabilizer comprises a high molecular weight amine.
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Sub B7
 3. The fuel additive of claim 1 wherein said high molecular weight amine comprises at least twelve carbon atoms.
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 4. The fuel additive of claim 3 said high molecular weight amine comprises between twelve and fourteen carbon atoms.
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 5. The fuel additive of claim 3 wherein said high molecular weight amine comprises more than fourteen carbon atoms.
 6. The fuel additive of claim 2 wherein said high molecular weight amine comprises Primene® RB-3.
 7. The fuel additive of claim 1 wherein said fuel stabilizer comprises between approximately 25 0.05 and approximately 0.5 parts by weight, said fuel additive having a total part by weight of 1.
 8. The fuel additive of claim 7 wherein said fuel stabilizer comprises between approximately 0.2 and approximately 0.5 parts by weight.

Sub B8 9. The fuel additive of claim 1 further comprising an organometallic compound selected from the group consisting of Mn, Pt, Ce, and mixtures thereof.

5 10. The fuel additive of claim 1 wherein said organometallic compound comprises dicyclopentadienyl iron.

11. The fuel additive of claim 1 wherein said organometallic compound comprises homologues of dicyclopentadienyl iron.

10 12. The fuel additive of claim 1 wherein said organometallic compound comprises between approximately 0.0001 and approximately 0.01 parts by weight, said fuel additive having a total part by weight of 1.

Sub B9 15 13. The fuel additive of claim 12 wherein said organometallic compound comprises between approximately 0.001 and approximately 0.005 parts by weight.

14. The fuel additive of claim 1 additionally comprising a high flash solvent.

20 15. The fuel additive of claim 14 wherein said solvent comprises naphtha.

16. The fuel additive of claim 15 wherein said naphtha comprises Conosolve® C-145.

25 17. The fuel additive of claim 14 wherein said high flash solvent comprises between approximately 0.1 and approximately 0.6 parts by weight, said fuel additive having a total part by weight of 1.

18. The fuel additive of claim 17 wherein said high flash solvent comprises between approximately 0.2 and approximately 0.4 parts by weight.

19. The fuel additive of claim 1 additionally comprising a lubricant.

20. The fuel additive of claim 19 wherein said lubricant comprises a mineral oil.

21. The fuel additive of claim 20 wherein said mineral oil is naphthenic.

22. The fuel additive of claim 19 wherein said lubricant comprises a synthetic oil.

23. The fuel additive of claim 22 wherein said synthetic oil comprises a petroleum derivative.

24. The fuel additive of claim 19 wherein said lubricant comprises a low viscosity.

25. The fuel additive of claim 24 wherein said viscosity is approximately 20 weight or less.

26. The fuel additive of claim 19 wherein said lubricant comprises between approximately 0.01 and approximately 0.25 parts by weight, said fuel additive having a total part by weight of 1.

27. The fuel additive of claim 26 wherein said lubricant comprises between approximately 0.03 and approximately 0.1 parts by weight.

28. The fuel additive of claim 1 additionally comprising a biocide.

29. The fuel additive of claim 28 wherein said biocide comprises a triazine.

30. The fuel additive of claim 29 wherein said triazine comprises Vancide®.

31. The fuel additive of claim 28 wherein said biocide comprises up to approximately 0.5 parts by weight, said fuel additive having a total part by weight of 1.

5 32. The fuel additive of claim 31 wherein said biocide comprises between approximately 0.0005 and approximately 0.0015 parts by weight.

33. The fuel additive of claim 1 additionally comprising a metal deactivator.

10 34. The fuel additive of claim 33 wherein said metal deactivator is a polyamine.

35. The fuel additive of claim 34 wherein said metal deactivator is a diamine.

15 36. The fuel additive of claim 35 wherein said diamine comprises at least one amine selected from the group consisting of propane diamine and ethylene diamine.

18 37. The fuel additive of claim 33 wherein said metal deactivator comprises up to approximately ^{8.2}~~0.02~~ parts by weight, said fuel additive having a total part by weight of 1.

20 38. The fuel additive of claim 37 wherein said metal deactivator comprises between approximately ^{0.005 and approximately 0.150}~~0.05 and approximately 0.15~~ parts by weight.

39. The fuel additive of claim 14 additionally comprising a lubricant.

25 40. The fuel additive of claim 39 wherein said stabilizer comprises a high molecular weight amine.

41. The fuel additive of claim 14 additionally comprising a biocide.

42. The fuel additive of claim 14 additionally comprising a high flash solvent and a metal deactivator.

Sub B10⁵

43. The fuel additive of claim 19 additionally comprising a lubricant and a biocide.

44. The fuel additive of claim 19 additionally comprising a lubricant and a metal deactivator.

45. The fuel additive of claim 28 additionally comprising a biocide and a metal deactivator.

46. The fuel additive of claim 39 additionally comprising a biocide.

47. The fuel additive of claim 39 additionally comprising a metal deactivator.

48. The fuel additive of claim 43 additionally comprising a metal deactivator.

49. The fuel additive of claim 45 additionally comprising a high flash solvent.

50. The fuel additive of claim 1 additionally comprising a high flash solvent, a lubricant, a biocide, and a metal deactivator.

51. The fuel additive of claim 1 further comprising a dispersant.

52. The fuel additive of claim 51 additionally comprising a high flash solvent.

53. The fuel additive of claim 51 additionally comprising a biocide.

54. The fuel additive of claim 51 additionally comprising a metal deactivator.

55. The fuel additive of claim 51 additionally comprising a high flash solvent and a lubricant.
56. The fuel additive of claim 51 additionally comprising a high flash solvent and a biocide.
57. The fuel additive of claim 51 additionally comprising a high flash solvent and a metal deactivator.
58. The fuel additive of claim 51 additionally comprising a lubricant and a biocide.
59. The fuel additive of claim 51 additionally comprising a lubricant and a metal deactivator.
60. The fuel additive of claim 51 additionally comprising a biocide and a metal deactivator.
61. The fuel additive of claim 55 additionally comprising a metal deactivator.
62. The fuel additive of claim 58 additionally comprising a metal deactivator.
63. The fuel additive of claim 60 additionally comprising a high flash solvent.
64. The fuel additive of claim 51 additionally comprising a high flash solvent, a lubricant, a biocide, and a metal deactivator.
65. The fuel additive of claim 51 additionally comprising a lubricant.
66. The fuel additive of claim 58 additionally comprising a high flash point solvent.